

(Modified) PTO/SB/08A-B (10-96)
Approved for use through 10/31/99. OMB 0651-0031

Substitute for form 1449A-B/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number 09/932,254
Filing Date August 16, 2001
First Named Inventor Lu Liu
Group Art Unit 1635
Examiner Name Unassigned
Attorney Docket Number 02-103610US

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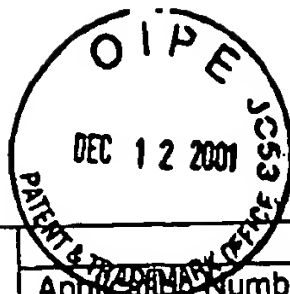
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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
W	AA	5,512,463		Stemmer	04-30-1996	
W	AB	5,514,588		Varadaraj	05-07-1996	
W	AC	5,605,793		Stemmer	02-25-1997	
W	AD	5,763,239		Short et al.	06-09-1998	
W	AE	5,789,228		Lam et al.	08-04-1998	
W	AF	5,811,238		Stemmer et al.	09-22-1998	
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W	AH	5,824,469		Horwitz et al.	10-20-1998	
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W	AM	5,866,363		Pieczenik	02-02-1999	
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W	AO	5,925,749		Mathur, et al.	07-20-1999	
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W	AQ	5,939,250		Short, Jay M.	08-17-1999	
W	AR	5,939,300		Robertson, et al.	08-17-1999	
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W	BA	6,001,574		Short et al.	12-14-1999	
Examiner Signature		M. T. V.			Date Considered	1/19/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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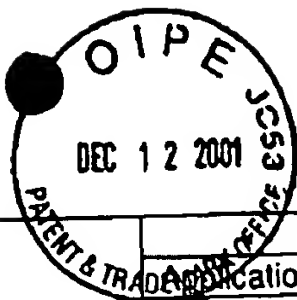
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<i>M</i>	BB	6,004,788		Short	12-21-1999	
<i>M</i>	BC	6,030,779		Short	02-29-2000	
<i>M</i>	BD	6,054,267		Short	04-25-2000	
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<i>M</i>	BL	6,174,673		Short, et al.	01-16-2001	
<i>M</i>	BM	6,180,406		Stemmer	01-30-2001	
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Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
<i>M</i>	BO	WO	97/07205		Novo Nordisk A/S	02-27-1997		
<i>M</i>	BP	WO	97/20078		Affymax Technologies	06-05-1997		
<i>M</i>	BQ	WO	97/25410		Novo Nordisk A/S	07-17-1997		
<i>M</i>	BR	WO	97/35957		Maxygen, Inc.	10-02-1997	11	
<i>M</i>	BS	WO	97/35966		Maxygen, Inc.	10-02-1997	11	
<i>M</i>	BT	WO	97/44361		Recombinant Biocatalysis Inc.	11-27-1997		
<i>M</i>	BU	WO	97/48416		Recombinant Biocatalysis, Inc.	12-24-1997		
<i>M</i>	BV	WO	97/48717		Recombinant Biocatalysis Inc	12-24-1997		
<i>M</i>	BW	WO	97/48794		Recombinant Biocatalysis Inc	12-24-1997		
Examiner Signature	<i>N. T. N.</i>					Date Considered	7/19/01	

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	First Named Inventor	Lu Liu
	Group Art Unit	1635
	Examiner Name	Unassigned
	Attorney Docket Number	02-103610US

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	BX	WO	98/00526		Recombinant Biocatalysis Inc	01-08-1998		
	BY	WO	98/01581		Recombinant Biocatalysis Inc	01-15-1998		
	BZ	WO	98/13485		Maxygen, Inc.	04-02-1998		
	CA	WO	98/13487		Maxygen, Inc.	04-02-1998		
	CB	WO	98/24799		Diversa Corp.	06-11-1998		
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	CM	WO	99/07837		Diversa Corp.	02-19-1999		
	CN	WO	99/08539		Diversa Corp.	02-25-1999		
	CO	WO	99/10472		Diversa Corp.	03-04-1999		
	CP	WO	99/10539		Diversa Corp.	03-04-1999		
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	CT	EP	0911396A3		Maxygen, Inc.	05-06-1999		
	CU	WO	99/23107		Maxygen, Inc.	05-14-1999		
	CV	WO	99/23236		Diversa Corp.	05-14-1999		

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Examiner Signature		Date Considered	7/14/05
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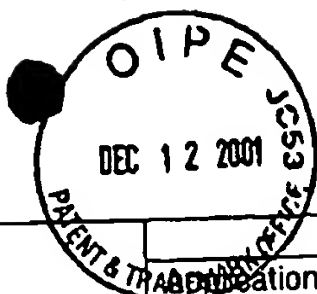
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	DA	WO	99/41383	Maxygen, Inc.	08-19-1999	
	DB	WO	99/41402	Maxygen, Inc.	08-19-1999	
	DC	WO	99/45154	Diversa Corp.	09-10-1999	
	DD	WO	99/57128	Maxygen, Inc.	11-11-1999	
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	DG	WO	00/42561	Maxygen, Inc.	07-20-2000	
	DH	WO	00/53744	Diversa Corporation	09-14-2000	
	DI	WO	00/58517	Diversa Corporation	10-05-2000	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	DJ	Chang, C., et al. (1999) "Evolution of a cytokine using DNA family shuffling." <u>Nature Biotechnology</u> 17:793-797.	
	DK	Christians, F.C. et al., (1999) "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling." <u>Nature Biotechnology</u> 17:259-264.	
	DL	Coco et al., (2001) "DNA shuffling method for generating highly recombined genes and evolved enzymes" <u>Nature Biotechnology</u> vol. 19 pp. 354-359	
	DM	Crameri et al., (1993) "10(20)-Fold aptamer library amplification without gel purification," <u>Nuc. Acids Res.</u> 21(18):4410.	
	DN	Crameri, A. & Stemmer W.P.C. (1995) "Combinatorial multiple cassette mutagenesis creates all the permutations of mutant and wildtype cassettes." <u>Biotechniques</u> 18:194-195.	
	DO	Crameri, A. et al. (1996) "Improved green fluorescent protein by molecular evolution using DNA shuffling." <u>Nature Biotechnology</u> 14:315-319.	
	DP	Crameri, A. et al. (1996) "Construction and evolution of antibody-phage libraries by DNA shuffling." <u>Nature Medicine</u> 2:100-103.	

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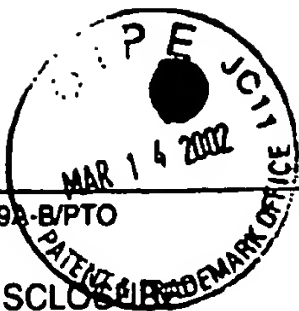
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	Group Art Unit	1635
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	Attorney Docket Number	02-103610US

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	DQ	Crameri, A. et al., (1997) "Molecular evolution of an arsenate detoxification pathway by DNA shuffling." <i>Nature Biotechnology</i> 15:436-438	
	DR	Crameri, A. et al., (1998) "DNA shuffling of a family of genes from diverse species accelerates directed evolution." <i>Nature</i> 391:288-291.	
	DS	Gates, C.M. et al., (1996) "Affinity selective isolation of ligands from peptide libraries through display on a lac repressor 'headpiece dimer'." <i>Journal of Molecular Biology</i> 255:373-386.	
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	DX	Stemmer, W.P.C. (1994) "DNA Shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution." <i>PNAS</i> 91:10751	
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	EB	Stemmer, W.P.C. (1996) "Sexual PCR and Assembly PCR." In: <i>The Encyclopedia of Molecular Biology</i> . VCH Publishers, New York. pp. 447-457.	
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	ED	Zhang, J. et al., (1997) "Directed evolution of an effective fucosidase from a galactosidase by DNA shuffling and screening." <i>Proceedings of the National Academy of Sciences, USA</i> 94:4504-4509.	

Examiner Signature		Date Considered	7/16/02
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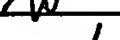
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	Group Art Unit	1635
	Examiner Name	Unassigned
	Attorney Docket Number	02-103610US
Date Submitted	March 5, 2002	

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Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
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W	AF	5,824,485		Thompson et al.	10-20-1998	
W	AG	6,077,696		Khosla et al.	06-20-2000	
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		Office	Number	Kind Code (if known)				
	AI	WO	99/07867	A1	Calgene LLC	02-18-1999		
	AJ	WO	00/06747	A2	Metabolix, Inc.	02-10-2000		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	
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Examiner Signature	<i>[Signature]</i>	Date Considered	7/19/05
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	Group Art Unit	1635
	Examiner Name	Unassigned
	Attorney Docket Number	02-103610US
	Date Submitted	March 5, 2002

	AP	Carreras, et al., (1997) "The Chemistry and Biology of Fatty Acid, Polyketide, and Nonribosomal Peptide Biosynthesis," <i>Topics in Current Chemistry</i> , Vol. 188, pp. 85-126.	
	AQ	Lindbladh, et al., (1992) "Characterization of a Recombinant Bifunctional Enzyme, Galactose Dehydrogenase/Bacterial Luciferase, Displaying an Improved Bioluminescence in a Three-Enzyme System," <i>Eur. J. Biochem.</i> , 204(1):241-247.	
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	AT	Nixon, et al., (1998) "Hybrid Enzymes: Manipulating Enzyme Design," <i>Tibtech</i> , Vol. 16, pp. 258-264.	
	AU	Scolnik, et al., (1996) "A Table of Some Cloned Plant Gene Involved in Isoprenoid Biosynthesis," <i>Plant Molecular Biology Reporter</i> , 14(4):pp. 305-319	
	AV	Kosan Biosciences, Inc., (2000) "Combinatorial Biosynthesis: Organic Molecule Diversity Through Recombinant DNA Technology," scientific prospectus pp.1-12.	

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Complete if Known

Application Number **09/932,254**

Filing Date **August 16, 2001**

First Named Inventor **Lu Liu, et al.**

Group Art Unit **3054**

Examiner Name **Unassigned**

Attorney Docket Number **0162.210 us**

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U.S. PATENT DOCUMENTS

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		Office	Number	Kind Code (if known)				
<i>W</i>	AW	WO	99/31224	A2	National Research Council of Canada [CA/CA]	06-24-1999		
<i>M</i>	AX	EP	0610046	A2	Bristol-Myers Squibb	08-10-1994		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
<i>W</i>	AY	Von ARNIM, A.G. et al., "Cloning vectors for the expression of green fluorescent protein fusion proteins in transgenic plants", <i>Gene: an International Journal on Genes and Genomes</i> , (1998) 35-43.	

Examiner Signature	<i>M. T. V.</i>	Date Considered	7/19/05
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Part of Paper No. 12

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	Group Art Unit	3054
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MN	AZ	6,448,473	B1	Mitsky, et al.	09-10-2002	

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Examiner Signature	<i>[Signature]</i>	Date Considered	7/14/05
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U.S. PATENT DOCUMENTS						
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<i>WV</i>	1	WO	99/31224-A		Canada Nat. Res. Council	02-10-2000	<i>duplicate</i>	
<i>WV</i>	2	EP	0 610 046-A		Squibb Bristol Myers	08-10-1994	<i>duplicate</i>	

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